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11/4/86

# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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Calcutta, the 22nd March 1986

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## CORRIGENDA

## (1)

In the Gazette of India, Part-III, Section 2 dated the 11th January, 1986 Page 18 in column 1 under the heading 'CORRIGENDUM' of Patents against item III.

For No. 123500  
Read No. 124500.

In the Gazette of India, Part-III, Section 2 dated the 3rd August, 1985, Page 611 in column 2 under heading 'CESSATION' of Patents.

Delete No. 124138.

In the Gazette of India, Part-III, Section 2 dated the 31st August, 1985 Page 664 in column 2 under heading 'CESSATION OF PATENTS'.

Delete No. 135787.

## (2)

In the Gazette of India, Part III, Section-2 dated 9th November, 1985 under the heading "Applications for Patents filed in the Patent Office Branch, at Todi Estates, 3rd Floor, Sun Mill Compound, Lower Parel (West), Bombay-400013" page-795. Column 1, under "the 13th September 1985" against No. 248/BOM/85.

For Deccan Sugar Institute

Read (1) Miss J. D. Mane,

(2) Dr. S. J. Jadhav and

(3) Dr. N. A. Ramaiah.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700017

The dates shown in crescent brackets are the dates claimed under section 135, of the Act.

*The 10th February, 1986*

- 92/Cal/86. Montedison S.p.A. Process for preparing high-yield catalyst components for the polymerization of ethylene and mixtures thereof with alpha-olefins. [Divisional dated 23rd December 1982.]
- 93/Cal/86. The Australian National University. Diamond compacts and process for making same.
- 94/Cal/86. Westinghouse Canada Inc. High reliability fuel oil nozzle for a gas turbine. (Convention dated 13th February, 1985) Canada.
- 95/Cal/86. Nabisco Brands Inc. Shelf-stable multi-textured cookies.
- 96/Cal/86. Canziani Francesco. Self-driven carriage, for sorting plants.
- 97/Cal/86. Trutzschler GmbH & Co. Kg. Device of feeding a card or a carding machine by means of two filling shafts.
- 98/Cal/86. Energy Conversion Trust. Energy conversion system. (Convention dated 11th February, 1985) United Kingdom.
- 99/Cal/86. Flavourtech Pty. Ltd. (formerly known as Vam-hire Pty. Ltd.) Improved gas-liquid contacting device. (Convention dated 11th February, 1985) Australia.
- 100/Cal/86. Research and Development Institute, Inc. Methods and compositions for improving the nutritive value of foods.

*The 14th February, 1986*

- 101/Cal/86. Westinghouse Electric Corporation. A lathe for machining balloonshaped pockets in a workpiece.

- 102/Cal/86. Westinghouse Electric Corporation. Improvements in or relating to sudden pressure relay supervisory apparatus.

- 103/Cal/86. Georg Fisher Aktiengesellschaft. Method of keeping inductor spouts, downgates and outlet channels free of deposits in connection with a cast iron melt.

- 104/Cal/86. (1) China Metallurgical Import and Export Corporation. (2) China Metallurgical Safety Technology Institute. Non-primary Explosive detonator.

- 105/Cal/86. Georg Fisher Aktiengesellschaft. Method and apparatus for casting iron treated with magnesium.

- 106/Cal/86. (1) Shri Ajay Bothra; (2) Shri Vinay Jain; (3) Shri Sanjay Jain. Box-cum-cutters for self adhesive tapes.

*The 17th February, 1986*

- 107/Cal/86. Metallurgical & Engineering Consultants (India) Limited. Improved coke oven door.

- 108/Cal/86. Metallurgical & Engineering Consultants (India) Limited. Sealing device for door frames and flash plates of coke oven batteries.

- 109/Cal/86. Metallurgical & Engineering Consultants (India) Limited. Coke oven foul gas offtake system.

- 110/Cal/86. Korf Engineering GmbH. Process for compacting iron particles and subsequent breaking apart of the compacted iron band and apparatus for performing this process.

- 111/Cal/86. Fried Krupp Gesellschaft Mit Beschränkter Haftung. Device and method to monitor machine parts.

- 112/Cal/86. Kortec AG. Apparatus and process for transferring a predetermined amount of liquid metal from a vessel containing a molten metal bath into a receiving container.

- 113/Cal/86. Dhruvarayan Chourashia. A filter assembly for use particularly in filtration of diesel oil.

- 114/Cal/86. Puma-Sportschuhfabriken Rudolf Dassler KG. Arrangement for the determination of movement sequences in running disciplines.

*The 18th February, 1986*

- 115/Cal/86 Otto India Private Limited. A novel system for achieving alignment and interlocking between pusher car and coke guide car on pusher and coke sides respectively of an oven chamber of a coke oven.

- 116/Cal/86 University of Queensland. Conversion of sucrose to ethanol and other products using *Zymomonas mobilis*. (Convention dated 21st Feb. 1985) Australia.

- 117/Cal/86. Siemens Aktiengesellschaft. Plug-in and disconnect aid.

- 118/Cal/86 Precise power Corporation. Improved A.C. motor-Generator.

- 119/Cal/86. Waymate Limited. Method for the continuous chemical reduction and removal of mineral matter contained in carbon structures. (Convention dated 19th Feb. 1985) Australia.

- 120/Cal/86. Teletronic Nachrichtentechnik GmbH. Sensor for monitoring installations. (Convention dated 20th February, 1985) Australia.

*The 19th February, 1986*

- 121/Cal/86 Somach Chaudhuri. Conservation of heat applied to a cooking utensil thereby reducing the cooking time and thus conservation of fuel.

122/Cal/86. Somesh Chaudhuri, Recovering and Utilising wasted heat radiated down wards from the burner of an LPG stove.

123/Cal/86. Usha Atlas Hydraulic Equipment Limited. A blocking system for use in single axle vehicles fitted with material handling equipment.

124/Cal/86. Usha Atlas Hydraulic Equipment Limited. A blocking system for use in wheeled mobile material handling equipments having twin axles with bogie.

125/Cal/86. (1) Proizvodstvennoe Obiedinenie "Minsky Motorny Zavod"; (2) Belorussky Politekhnicheskyy Institut. Diesel Engine.

126/Cal/86. Combustion Engineering, Inc. Molding Register System.

**APPLICATION FOR PATENT FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, THIRD FLOOR, KAROL BAGH, NEW DELHI-110005**

*The 27th January, 1986*

74/Del/86. UOP INC., "Process for producing a hydrogen rich gas stream".

75/Del/86. Rockwell International Corporation, "Vehicle axle and brake support assembly".

76/Del/86. Sanden Corporation "Capacity variable type compressor".

77/Del/86. Sherrit Gordon Mines Ltd., "Process for recovering zinc from zinc containing sulphide material also containing iron and zinc oxide containing material". [Divisional date 18th May 1983].

*The 28th January, 1986*

78/Del/86. Interlox, "Process for the mechanical properties improvement of chemical or semi-chemical bagasse pulp".

79/Del/86. Rhone Poulenc Agrochimie, "Process for preparing a substituted phenylurea".

80/Del/86. C. R. Bard, Inc., "Wire guided laser catheter".

*The 29th January, 1986*

81/Del/86. The Standard Oil Company, "Method of producing adiponitrile".

82/Del/86. Sanden Corporation, "Drive system for the orbiting scroll of a scroll type fluid compressor".

83/Del/86. Accumulatorenfabrik Sonnenschein GmbH, "Control circuit for the current of a welding transformer".

84/Del/86. Sanden Corporation, "Device for controlling the capacity of a variable capacity compressor".

85/Del/86. Sanden Corporation, "Rotational speed detecting device for swash plate type compressor".

*The 30th January, 1986*

86/Del/86. Brush Switchgear Limited, "Sectionalizers".

87/Del/86. Exxon Research & Engineering Co., "An additive concentrate containing a flow and filterability improver mixture". [Divisional date 27th May, 1982].

88/Del/86. Dowty Hydraulic Units Limited, "Retarders suitable for wagon speed control". (Convention date 27-2-1985) (U.K.).

89/Del/86. UOP Inc., "Process for converting hydrocarbons". [Divisional date 18th January, 1984].

*The 31st January, 1986*

90/Del/86. Council of Scientific and Industrial Research, "Rotating biological rope contractor".

91/Del/86. Racold Appliances Pvt. Ltd., "A drum heater".

92/Del/86. Indian Institute of Technology, "A dressing attachment for a surface grinder".

93/Del/86. Societe Clemessy, "A telephonic traffic simulator for setting-up, control and maintenance of telephone exchanges".

94/Del/86. The Goodyear Tire & Rubber Company, "A stable organic composition and a process for preparing the same". [Divisional date 28th December, 1982].

95/Del/86. The Goodyear Tire & Rubber Company, "A stable organic composition and a process for preparing the same". [Divisional date 28th December, 1982].

96/Del/86. The Goodyear Tire & Rubber Company, "A stable organic composition and a process for preparing the same". [Divisional date 28th December, 1982].

97/Del/86. The Goodyear Tire & Rubber Company, "A stable organic composition and a process for preparing the same". [Divisional date 28th December, 1982].

98/Del/86. The Goodyear Tire & Rubber Company, "A stable organic composition and a process for preparing the same". [Divisional date 28th December, 1982].

99/Del/86. The Goodyear Tire & Rubber Company, "A stable organic composition and a process for preparing the same". [Divisional date 28th December, 1982].

**APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATE S, 3RD FLOORS, SUN MILL COMPOUND, LOWER PAREL (W), BOMBAY -400013.**

**1-1-1986**

1/Bom/86 . . . . . Rajkumar alias Raja Paramlal Jain.

An improved septic tank latrine.

2/Bom/86 . . . . . Bharat Standard Industries.

Improvements in Burner of Pressure Stove (Kerosene oil).

**2-1-1986**

3/Bom/86 . . . . . Narayan Narsinha Desai.

Device for preventing reverse rotation in centrifugal pumps electric motor and the like equipment.

**3-1-1986**

4/Bom/86 . . . . . Beacon Industrial Electronics Pvt. Ltd.

An electronic slate.

5/Bom/86	Smt. Manju Agrawal.	6-1-1986	Mini Nicotine-scatter for cigarette or cigarette or bidi.
6/Bom/86	Dr. Manohar Daulatrao Pawar.		Intra Cystic tubular implant in the bladder of lacrimal drainage system.
7/Bom/86	Ralliwoolf Limited.	7-1-1986	Portable tapping machine.
8/Bom/86	Kambyan Valapil Radhakrishnan Nair.	8-1-1986	Method for extruding thin walled hollow sections and tubes.
9/Bom/86	Do.		Rotary device for converting alternating current to direct current and vice versa.
10/Bom/86	Do.		Device for keeping automobile seat cushions cool while seating.
11/Bom/86	Do.		Process for special blank making for metal processing in solid state.
12/Bom/86	Pidilite Industries Private Limited.		A device for dispensing two viscous substances separately simultaneously.
13/Bom/86	Bhide, Anand Govind.		Wind Power convertor with horizontally rotating sails, vertical shaft and automatic safety device against stormy wind.
14/Bom/86	Growell Agrochem (Bombay) Private Limited.		An improved complete liquid foliar fertilizer formulation containing macronutrients (nitrogen, phosphorus, and potash), chelated micronutrients, growth hormone, biostimulant, vitamin and possessing adhesion properties and regulated pH.
15/Bom/86	Bombay Suburban Electric Supply Ltd.	9-1-1986	Automatic Meter Testing System.
16/Bom/86	Rishiroop Polymers Private Limited	10-1-1986	A process to increase the thermal resistance of chlorinated rubber and the product made thereby.
17/Bom/86	Joshi Nandakumar Ramchandra.	13-1-1986	Shielded guard for electronic interconnections (with EMI shielding).
18/Bom/86	Ghanshyam Shankar Tasgeonkar.		Utensil.
19/Bom/86	Shah Vinodray Nanchand.	14-1-1986	Modified soxhlet apparatus.
20/Bom/86	Yeshwant Parashuram Marathe.	15-1-1986	Fibre Optic cable attachment to photo sensitive devices like photo-transistor, light dependent resistor photo-cell etc.
21/Bom/86	The textile and Allied Industries Research Organisation.	17-1-1986	Improved apparatus for separating trash from lint in textile fibres.
22/Bom/86	Suvarna Shukla Investments Private Ltd.		Thermic fluid pump.
23/Bom/86	Muralidhar Naryan Desai.	20-1-1986	Reactor for manufacture of carbides of tungsten.
24/Bom/86	Hindustan lever limited.		Detergent powder and process for its preparation.
25/Bom/86	Hindustan lever Limited.		Toilet Bars.
26/Bom/86	Greaves Foseco Limited.	21-1-1986	Refractory compositions.
27/Bom/86	Eco-Tech Limited.		Fluid treatment process and apparatus.
28/Bom/86	Padgilwar Electrical Industries.	22-1-1986	A novel chaff cutter attachment with Thresher.

29/Bom/86	Expo Gas containers Private Limited.	An improved lid for the pressure cookers or the like vessels and the pressure cooker or the like vessel comprising the same.
30/Bom/86	Ahmedabad Textile Industry's Research Association.	An improved slub catcher blade.
31/Bom/86	Anand Govind Bhole.	Packaging Water Treatment Plant.
23-1-1986		
32/B/86	Shah Zaverchand & Ram Bohere.	An apparatus & Process for coating of utensils
28-1-1986		
33/B/86	Gunwant Mohanlal Joshi	An electrically operated vapour generator & method of manufacturing such generators.
34/B/86	Banwari Ramubhaya Agarwal.	A dual discharge water saving flushing cistern.
35/B/86	Homi Nariman Bharucha.	An improved siphon pump.
29-1-1986		
36/B/86	Kabelschlepp GmbH	Carrier for energy & supply lines.
37/B/86	Kabelschlepp GmbH	Guide chain for guiding energy lines.
30-1-1986		
38/B/86	Tata Research Development & Design centre.	A process for the manufacture of hydraulic setting cement from pulverised fuel ash.
39/B/86	Tata Research Development & Design Centre.	A process for the manufacture of hydraulic setting cement from integrated steel plant wastes.
31-1-1986		
40/B/86	Arun Kumar Gathoria.	Proper distribution of liquid by spongy spinning disc in Heli-Sprayer.
41/B/86	Ratnakar Vinayak Sharangpani.	A hydraulically operated spanner like device.

**APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002**

*The 3rd February, 1986*

72/Mas/86. Kerala State Electronics Development Corporation Ltd. Microprocessor controller for inverter system.

73/Mas/86. Widia (India) Limited. An improved milling insert.

74/Mas/86. L. G. Rao. Variable wattage electric lamp.

75/Mas/86. Metal Box plc. Containers for use in detecting micro-organisms. (March 8, 1985; United Kingdom).

*The 4th February, 1986*

76/Mas/86. The Dow Chemical Company. Corrosion inhibitor for high density brines.

77/Mas/86. Envirecon Services Limited. Apparatus for counter scale formation in a fluid flow system. (February 5, 1985; Ireland).

78/Mas/86. Brandt, Inc. Compact apparatus for dispensing a preslected mix of paper currency or the like.

79/Mas/86. Gene Wylie Adams & John William Brosnahan. Imaging doppler interferometer.

*The 5th February, 1986*

80/Mas/86. Raychem Corporation. High frequency attenuation cable and harness.

81/Mas/86. AE PLC. Disposable cartridges for centrifugal separators. (February 27, 1985; United Kingdom).

*The 6th February, 1986*

82/Mas/86. Tocco, Inc. A circuit for creating repetitive gating signals. (Divisional to Patent Application No. 715/Cal/82).

83/Mas/86. **Tocco, Inc.** A circuit for controlling the frequency of gating signals. (Divisional to Patent Application No. 715/Cal/82).

84/Mas/86. **Owens-Illinois, Inc.** Tamper-indicating closure, container and combination thereof.

85/Mas/86. **Raychem Corporation.** High frequency attenuation cable and harness.

*The 7th February, 1986*

86/Mas/86. **The British Petroleum Company p.l.c.** Manipulative Device. (February 12, 1985; Great Britain).

87/Mas/86. **Saipem S.p.A.** Process for the installation of the en bloc superstructure of an offshore platform, and equipment for carrying it practically.

#### ALTERATION OF DATE

157398. Ante dated to 11th March, 1981.

(805/Cal/81).

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

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CLASS : 176 I.

157388.

Int. Class : F23k 5/00.

#### "FLUID INJECTOR"

Applicant : **PEABODY HOLMES LIMITED, A BRITISH COMPANY OF TURNBRIDGE, HUDDERSFIELD HD1 6HB, ENGLAND.**

Inventors : **BARRY JAMES COHEN, JOSEPH SCARAMUZZA & GRAHAM TOCK.**

Application for Patent No. 503/Del/81 filed on 10th August, 81.

Convention date 22nd August, 1980/8027477/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

16 Claims

A fluid injector comprising a valve housing, an injector assembly removably mounted on said valve housing and in-

cluding discharging means for discharging fluid from the injector assembly, ducting for conveying said fluid between said valve housing and said discharging means and a control valve movable to a first position in response to flow of said fluid in a first direction through said ducting to close said discharging means to said valve housing and movable to a second position in response to flow of said fluid in a second direction through said ducting to open said discharging means to allow at least some of the fluid conveyed to said discharging means to be discharged therefrom and to return any surplus fluid to said valve housing, inlet and outlet passages in said valve housing for conveying said fluid into and from said valve housing, a change over valve in said valve housing comprising a valve member adjustable into a first position to condition the injector for flow of said fluid from said inlet passage through said ducting in said first direction and into a second position to condition the injector for flow of said fluid from said inlet passage through said ducting in said second direction, and change over valve control means actuable to move said valve member into a third position in which said change over valve prevents the flow of fluid from said inlet passage to said ducting, said control means comprising a mechanical interlock preventing removal of said injector assembly from said valve housing unless said valve member has been moved into said third position by said control means.

Compl. specn. 22 pages. Drgs. 3 sheets.

CLASS : 101 F.

157389

Int. Class : F02b 9/08, F03b 13/12.

"AN APPARATUS FOR EXTRACTING ENERGY FROM SEA WAVES".

Applicant : **LOCKHEED MISSILES & SPACE COMPANY, INC., A CALIFORNIA CORPORATION HAVING ITS OFFICES AT 1111 LOCKHEED WAY, SUNNYVALE, CALIFORNIA-94086. UNITED STATES OF AMERICA.**

Inventor : **PAUL FREDERIK ROBERT WEYERS.**

Application for Patent No. 701/Del/81 filed on 5th November, 81.

Convention date 27th January, 1981/369, 386/(Canada).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

15 Claims

An apparatus for extracting energy from sea waves, said apparatus comprising :

- (a) station-keeping means positioned beneath the sea;
- (b) energy conversion means secured to said station-keeping means, said energy conversion means including :
  - (i) an atoll member capable of vertical motion relative to said station-keeping means through a range of vertical positions,
  - (ii) a vertical shaft secured to said atoll member, and
  - (iii) means for converting energy of successive sea waves impinging on said atoll member into rotational energy of said shaft; &
- (c) means for moving said energy conversion means through said range of vertical positions to a position at which conversion of energy from said sea waves to rotational energy of said shaft is maximum for a particular set of sea state and tidal conditions.

Compl. specn. 22 pages. Drgs. 5 sheets.

CLASS : 32 B.

157390

Int. Class : C07c 15/00.

"AN IMPROVED PROCESS FOR THE PREPARATION OF AROMATIC HYDROCARBONS FROM ETHYL ALCOHOL OR MIXTURE OF ETHYL ALCOHOL AND WATER IN A SINGLE STEP CONVERSION".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : SUNEETA BALVANT KULKARNI, PAUL RATNASAMY, IKKANDATH BALKRISHNA, BOLLA-PRAGADA SEHAGI RAO, ASHA JEEVAN CHANDWADKAR & ARVIND NARAYAN KOTASTHANE.

Application for Patent No. 707/Del/81 filed on 9th November, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## 6 Claims

An improved process for the preparation of aromatic hydrocarbons from ethyl alcohol or mixture of ethyl alcohol and water in a single step conversion comprising contacting the alcohol or the mixture of ethyl alcohol and water in a vapour phase with a catalytic material consisting of a mixture of amorphous and crystalline alumino silicates prepared by reacting stoichiometric mixture of oxides of sodium, aluminium and silicon with a bromide salt of an ammonium compound of formula  $Ax By n + Br$  in sulphuric acid and water to form a gel, heating the resultant gel at  $100^\circ$  to  $180^\circ\text{C}$  for 1 to 15 days, to obtain a wet cake on filtration and calcination, subjecting the resultant solid product to an ion-exchange treatment with an ammonia salt to obtain a product with a molar ratio of sodium oxide to aluminium oxide in the range of 0.05 to 2.3 and further drying and calcining the same further A and B are alkyl radicals like ethyl, propyl or butyl, and are same or different and X and Y are digits between 1 and 3, the value of X being same or different than that of Y and the sum of value X and Y equals to 4.

Compl. specn. 10 pages. Drgs. 2 sheets.

CLASS : 23E &amp; 13 A&amp;C.

157391

Int. Class : A 47 g 19/30.

"A PACKAGE FOR PACKAGING OF MATERIALS".

Applicant : ROLLATAINERS LIMITED, OF 13/6 MATHURA ROAD, FARIDABAD-121003, HARYANA, INDIA, AN INDIAN COMPANY.

Inventor : RANGANATHAN KRISHNAMOORTHY.

Application for Patent No. 712/DEL/1981 filed on 13th November 1981. Complete Specification left on 2nd December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## 6 Claims

A package for packaging of material other than in a liquidous state comprising of sidewalls and endwalls formed from a single walled member, a heat sealable thermoplastic or resin selected from polyvinyl chloride, polypropylene, polyethylene or nitor cellulose based resin singularly or in any combination applied on the inner surface of said sidewalls and endwalls, characterized in a diaphragm adhered to each of said endwalls said diaphragm having on the inner surface thereof said heat sealable thermoplastic or resin.

Provisional specification 5 pages.

Compl. specn. 9 pages. Drg. 1 sheet.

CLASS : 63 A<sub>2</sub>.

157392

Int. Class : H02k 17/00.

"ALTERNATOR FOR SUPPLY OF ELECTRIC CURRENT ESSENTIALLY, BUT NOT EXCLUSIVELY TO A MOTOR VEHICLE".

Applicant : EQUIPMENTS AUTOMOBILES MARCHAL, A FRENCH JOINT-STOCK COMPANY, OF 26, RUE GUY-NEMER, 92132, ISSY-LES MOULINEAUX, FRANCE.

Inventors : PIERRE PERRIER & MATHIEU MATTEI.

Application for Patent No. 716/Del/81 filed on 17th November, 81.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5

## 12 Claims

An alternator for the supply of electric current essentially, but not exclusively, to a motor vehicle which comprises a rotor in the form of a substantially annular yoke having inner and outer upstanding walls connected at their bases by means of a circular core, said yoke presenting in cross-section a substantially U-shape, a fixed armature having a winding provided within said yoke between said upstanding walls, the inner wall of said yoke defining a hollow shaft, drive means for driving said rotor located at one end of said shaft and an electronic switching device for regulating and rectifying the output current from the alternator provided at the opposite end of said shaft.

Compl. specn. 13 pages. Drgs. 2 sheets.

CLASS : 141 B.

157393

Int. Class : C22b 53/00.

"IMPROVED PROCESS FOR BENEFICIATING TITANIFEROUS MATERIALS".

Applicant : KERR MCGEE CHEMICAL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF KERR MCGEE CENTER, OKLAHOMA CITY, OKLAHOMA, UNITED STATES OF AMERICA.

Inventors : EDGEL PRYCE STAMBAUGH & DAVID WILLIAM NEUENDORF.

Application for Patent No. 755/Del/81 filed on 30th November, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## 5 Claims

An improved process for beneficiation of titaniferous material comprising : heating an aqueous hydrochloric acid to a temperature of from 95 degrees C. to 150 degrees C., heating a particulate titaniferous material containing acid-soluble non-titanium values including iron to a temperature of from 100 degrees C. to 150 degrees C. : containing said heated particulate with said heated acid to dissolve at least a portion of said non titanium values to provide a leach liquor containing acid soluble non titanium values and a beneficiated particulate comprising titanium values which are substantially insoluble in said heated acid; heating dissolved titanium values in said leach liquor, precipitate said hydrolyzed titanium values upon the surface of at least a portion of said beneficiated particulate whereby diffusion of said dissolved titanium values into the bulk solution of said leach liquor substantially is prevented and the formation of fines comprising precipitated titanium values in the bulk solution of said leach liquor is reduced; and recovering said beneficiated particulate together with any precipitate of titanium values thereon.

Compl. specn. 15 pages.

CLASS : 141 D.

157394

Int. Class : B03b, 9/00.

"DISCHARGE ASSEMBLY FOR REMOVING GREEN PELLETS OUT OF A PELLETIZING DEVICE".

Applicant : VDEST-ALPINE AKTIENGESSELLSCHAFT, A COMPANY ORGANIZED UNDER THE LAWS OF AUSTRIA, RESIDING AT WERKSGELANDE, 4010 LINZ, AUSTRIA.

Inventor : RAINER DREIER.

Application for Patent No. 763/Del/1981 filed on 2nd December, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## 11 Claims

Discharge assembly for removing green pellets out of a pelletizing device, in particular out of a pelletizing disk, comprising a discharge chute and a conveying means arranged below the discharge chute, characterized in that between the discharge chute and a green-pellet collecting means, a flap that is pivotable between two positions (A and B) is provided, which, in a first position (A) elongates the discharge chute to the green-pellet collecting means and, in a second position (B), is directed transverse to the discharge chute and towards a reconveying means.

Compl. specn. 12 pages. Drgs. 5 sheets.

CLASS : 14A.

157395

Int. Class : H01m—35/00.

"METHOD OF MANUFACTURING A BATTERY GRID, A BATTERY GRID SO PRODUCED AND A BATTERY INCORPORATING THE BATTERY."

Applicant : DUNLOP OLYMPIC LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF VICTORIA, OF 500 BOURKE STREET, MELBOURNE, VICTORIA, AUSTRALIA.

Inventors : WILLIAM LESLIE McDOWALL & ALAN KEITH MAPLEDEN.

Application for Patent No. 771/Del/1981 filed on 9th December, 1981.

Convention date 9-12-1980/PE6844/80 (Australia).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## 5 Claims

A method of manufacturing a battery grid having a plurality of side by side rectangular paste receiving areas each having a metal mesh element supported therein, said method comprising moulding a plastics rectangular perimeter frame with a plurality of integral division elements located parallel to opposite sides of the perimeter frame to define between said opposite sides, said side by side rectangular paste receiving areas, and embedding during moulding on the frame at least a portion of the mesh element in one of said opposite sides of the frame and in at least one adjacent division element so the mesh element spans the paste receiving area, characterised in that there is formed in the exposed portion of each mesh element at least one corrugation extending parallel to the division element so that the mesh element is stretched to remove any buckling thereof occurring during moulding of the frame thereabout.

Compl. specn. 11 pages. Drgs. 2 sheets.

CLASS : 40A<sub>2</sub> & 70C<sub>2</sub>.

157396

Int. Class : C23b 1/00, 3/00.

"AN IMPROVED PROCESS FOR IMMERSION STRIPPING OF NICKEL ELECTRODEPOSITS FROM STEEL AND STAINLESS STEEL SUBSTRATES".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : HANDADY VENKATAKRISHNA UDUPA, SANNANALLUR RAMACHANDRAN NATARJEN, SRINIVASAN SRIVEERARAGHAVAN & RAMANATHAN KRISHNAN.

Application for Patent No. 794/Del/84 filed on 21st December, 1981.

Complete specification left on 21st March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## 4 Claims

An improved process for the immersion stripping of nickel electrodeposits from steel and stainless steel substrates comprising treating the substrate in a chemical bath consisting of ethylene diamine, nitric acid, sodium cyanide and sodium salt of m-nitrobenzene sulphonic acid at a temperature upto 60°C.

Provisional specification 8 pages.

Compl. specn. 12 pages.

CLASS : 90A &amp; I.

157397

Int. Class : C03b 3/00.

"PROCESS AND APPARATUS FOR MAKING GLASS".

Applicant : PPG INDUSTRIES, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA, OF ONE GATEWAY CENTER, PITTSBURGH 22, STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA.

Inventor : GEORGE ANTHONY PRORARO.

Application for Patent No. 809/Del/81 filed on 28th December, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

## 13 Claims

A method for making glass wherein a stream of molten glass is delivered from a glassmaking furnace over a transversely mounted refractory threshold to the inlet end of a glass forming facility, which comprises cooling preselected transverse regions of the refractory threshold at different rates so as to control the temperature profile of said stream of molten glass to control the temperature profile there across to improve wear characteristics of said refractory threshold.

Compl. specn. 18 pages. Drgs. 3 sheets.

CLASS : 26.

157398

Int. Cl. A 46 b 5/00.

## TOOTHBRUSH

Applicant & Inventor : REDMOND BARRY EARLF, 2575 WEST 16TH AVE., VANCOUVER, B.C., V6K 3B9, CANADA.

Application No. 805/Cal/81 filed July 17, 1981.  
Ante dated to 11th March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A toothbrush comprising an elongated handle and a bristle head, said handle having a longitudinal axis said handle having a top surface, a bottom surface, and two edge surfaces and being substantially rectangular in cross-section, said handle having a gripping section comprising two oppos-



ed flanges, each flange lying flatly on said top and bottom surfaces, respectively, each flange being equally dimensional and being rectangular in cross-section throughout and extending transverse to the axis of the handle, said flanges being removable from the handle to which they are fixed by bolt or strap means, being formed or as one with the handle and being the same length as the width of the top and bottom surfaces of the handle, said flanges being positioned on said handle at about one third distance from the bristle head end of the toothbrush, whereby broad gripping surfaces are provided on the sides and ends of said flanges for the forefinger and thumb of the user.

Compl. Specn. 8 pages. Drg. sheet.

CLASS : 32-E; 40-F.

157399

Int. Cl. C 08 f 47/00; C 08 k 1/00; C 09 k 3/00.

SECONDARY RECOVERY OF PETROLIFEROUS FLUID, AND PROCESS FOR THE PREPARATION OF ETHYLCYANODERIVATIVES OF POLYGALACTOMANNANS USED THEREFOR.

Applicant : AGO CHEMICALS S.p.A., OF VIA SCALABRINI 106, COMO, ITALY.

Inventor : 1. GIUSEPPE CAPPI.

Application No. 1275/Cal/81 filed November, 17, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

Process for the preparation of ethylcyano-derivatives of polygalactomannans, employed for fracturing solutions, comprising reacting the polygalactomannans of its derivatives (or racals or seeds containing them) with acrylonitrile in the presence of water and of an alkaline catalyst, such as herein described.

Compl. Specn. 7 pages. Drg. nil.

CLASS : 170-B.

157400

Int. Cl. A 61 k 7/00.

MULTI-PHASE TOOTHPASTE AND METHOD OF MAKING THE SAME.

Applicant : BEECHAM INC., OF 65 INDUSTRIAL SOUTH, CLIFTON, NEW JERSEY 07012, U.S.A.

Inventors : 1. ROGER EDWIN STIER. 2. ANDREW MINCZUK.

Application No. 801/Cal/82 filed July 12, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

A multi-phase toothpaste, comprising a paste matrix and a plurality of secondary paste bodies such as herein described embedded in and discrete from the paste matrix such as herein described, characterized in that the paste matrix is an opaque material, comprising from 60 to 80%, by weight of the toothpaste, containing a cleaning or polishing agent of the type herein described and each secondary body is a transparent or translucent gel, the secondary bodies comprising from 40 to 20%, by weight of the toothpaste.

Compl. Specn. 11 pages. Drg. nil.

CLASS : 162.

157401

Int. Cl. G 10 d 3/10.

MACHINE FOR MANUFACTURING STRING FOR MUSICAL INSTRUMENT.

Applicant & Inventor : UMA PRASAD MUKHERJEE, C/O. MUSICAL STRING RESEARCH BUREAU, P.O. BAIDYABATI, G.T. ROAD, DISTRICT HOOGHLY WEST BENGAL, INDIA.  
2-507/GI/85

Application No. 1151/Cal/82 filed October 5, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 3 Claims

A machine for manufacturing string for musical instrument which comprises—

- a flat rectangular platform standing on a pair of legs.
- an adjustable vertical bracket positioned at one end and a fixed vertical bracket positioned at the other end of the said platform.
- a flywheel fixed to the outer wall of the fixed bracket and a balance wheel fixed to the inner wall of the fixed bracket, both wheels being mounted on the same spindle.
- a pin-tongue fixed to the spindle of the balance wheel for holding one end of the basic steel wire and the other end of the said steel wire being attached to the adjustable bracket through a spring, wherein.
- the said flywheel on the outer wall of the fixed bracket is connected, by a belting, to a pulley of an electric motor for driving the machine.

Compl. Specn. 4 pages. Drg. 1 sheet.

CLASS : 98-I.

157402

Int. Cl. F 24 j 3/02.

USING BLACK BODIES IN SOLAR WATER HEATER.

Applicant & Inventor : DHRUBES BISWAS, 1/25, RANA PRATAP ROAD, P.O. DURGAPUR-4 BURDWAN, WEST BENGAL INDIA, (PIN-713204).

Application No. 1326/Cal/82 filed November 12, 1982.

Complete specification left on 10th November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims

A solar water heater comprising four tumblers for storage of hot water, four Fresnel lens fitted each on a lens stand, four black bodies, each fitted in each tumbler, each tumbler interconnected by outgoing and incoming pipes with the other tumblers, thermometer and pressure gauge fitted to the line, lagging materials packed in void spaces, entire assembly housed in wooden box and a screwing arrangement for tracking the sun such that the rays reach the projection inside each black body.

Provisional Specn. 2 pages. Drg. nil.

Compl. Specn. 3 pages. Drgs. 3 sheets.

CLASS : 98-I; 206-E.

157403

Int. Cl. H 01 s 3/18; H 01 l 15/00.

ARRANGEMENT FOR LASER SCRIBING OF DENDRITIC WEB SILICON CELLS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : 1. EDWARD JOSEPH SEMAN.

Application No. 104/Cal/83 filed January 27, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

An apparatus for laser scribing of dendritic web silicon cells to delineate the cell from the dendrites along the longitudinal edge thereof, comprising :

a least one predetermined pattern to define the cell structure to be formed;

support structure for supporting said dendritic web silicon cell for alignment with said pattern, so that the cell can be scribed to delineate the cell from the dendrites;

optical receiver-transmitter associated with said support structure for visually viewing said pattern and the portion of the dendritic web silicon cell which is to be delineated from the dendrites so that a laser scribe line can be used to provide a separation mark between the cell and the dendrites.

Compl. Specn. 19 pages. Drgs. 5 sheets.

CLASS : 206-E.

157404

Int. Cl. H 01 i 23/06.

## ELECTRONIC BALLAST SYSTEM

Applicant : INTENT PATENT A.G., C/O. TIMOTHY ELWES, 7 STOREY'S GATE, WESTMINSTER, LONDON SW1P3 AT, UNITED KINGDOM.

Inventor : 1. JACQUES M. HANLET.

Application No. 116/Cal/83 filed February 1, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

An electronic ballast system coupled to a power source for at least one of a pair of gas discharge tubes, each of said gas discharge tubes having a first and second filament comprising :

- (a) a first transformer means coupled to said power source, having a primary and a secondary winding for establishing an oscillation signal;
- (b) first and second transistor means being feedback coupled to said first transformer means for switching a current signal responsive to said oscillation signal;
- (c) first and second inverter transformer means, each of said first and second inverter means having a tapped winding for establishing an induced voltage signal responsive to said current signal, and a pair of secondary windings
- (d) first and second coupling capacitors connected to said tapped windings of said inverter transformer means and said first filaments of said gas discharge tubes for discharging said induced voltage signal to said first filaments; and,
- (e) first and second capacitors connected to the means coupled to said tapped windings of said inverter transformer means, having a resonant frequency and a duty factor of a signal pulse generated in said inverter transformer means.

Compl. Specn. 38 pages. Drg. 1 sheet.

CLASS : 173-B.

157405

Int. Cl. B 05 b 7/24, 17/00.

## SPRAY GUN FOR SPRAYING LIQUID IN AN ATOMISED FORM.

Applicant : LEO PLASTICS (PRIVATE) LTD., CHARTERED BANK BUILDINGS, CALCUTTA-700 001, STATE OF WEST BENGAL, INDIA.

Inventor : 1. MR. GURU DAS PAL.

Application No. 135/Cal/83 filed February 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A spray gun comprising a barrel, a plunger in the barrel which is adapted to reciprocate in the barrel when operated, said barrel having an independent chamber provided at the discharge end thereof beyond the stroke of the plunger, a non-return valve fitted in an inner wall of the said chamber which inner wall faces the plunger, said chamber being in communication with a container for the liquid to be sprayed, a spray nozzle provided at the discharge end of the chamber and a delivery tube having its one end inserted and opening into the nozzle and the other end leading into the liquid container.

Compl. Specn. 9 pages. Drg. 1 sheet.

CLASS : 51-D.

157406

Int. Cl. B 26 b 21/16.

## SAFETY RAZORS

Applicant : HARBANS LAL MALHOTRA & SONS LTD., OF NO. P-12, NEW C.I.T. ROAD, CALCUTTA-700073, WEST BENGAL, INDIA.

Inventor : 1. NAVIN PRAKASH MALHOTRA.

Application No. 136/Cal/83 filed February 4, 1983.

Addition to No. 1419/Cal/82 dated 28th December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims

A safety razor comprising a handle formed with a hole adjacent its upper end the axis of the hole being inclined to the longitudinal axis of the handle, and a carrier for a cartridge having one or more single edged blades, secured in the hole by fixing means, the holder being in the form of a hollow tube formed with slots or slits extending from the open ends thereof and with a lever member fitted in each pair of slits or slots and secured to the carrier by a pin and connected together by a helical spring, each lever member being formed with an inwardly directed hook at one end and an ear at the other, the lever members being adapted to be pivoted about the said pins by pressing together the ears to move the books away from each other and to make them engage a blade cartridge on release of the ears, characterized in that a substantially rectangular shaped lug having a channel shaped slot on its outer edge is rigidly secured to the central portion of the holder, equidistant from the said lever member.

Compl. Specn. 14 pages. Drgs. 2 sheets.

CLASS : 131-A<sub>1</sub>.

157407

Int. Cl. E 01 g 5/00.

## METHOD OF PRODUCING A LINED PASSAGEWAY BY EVERTING A FLEXIBLE LINING TUBE INTO THE PASSAGEWAY AND A LINED PASSAGEWAY PRODUCED ACCORDING TO THE METHOD.

Applicant : INSITUFORM HOLDING LIMITED 4 WESTS CENTRE, BATH STREET, ST. HELIER, JERSEY, CHANNEL ISLANDS, VIA UNITED KINGDOM.

Inventor : 1. ARIC WOOD.

Application No. 138/Cal/83 filed February 5, 1983.

Convention dated 5th February, 1982 (82 03303) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

A method of producing a lined passageway by everting flexible lining tube into the passageway, wherein a pressure medium keeping the everted lining on the passageway surface is gaseous in nature, the inwardly travelling portion rests on and is supported by the bottom, previously everted portion, and in addition there is a lubricating medium such as lubri-

ating soap or oil inside the lining tube so that the inwardly travelling portion thereof slips over said bottom, previously overtaken portion.

Compl. Specn. 7 pages. Drg. 1 sheet.

CLASS : 4-A; 4-B.

157408

Int. Cl. B 64c 3/00.

**BLADE PROFILE FOR ROTARY WING OF AN AIRCRAFT.**

Applicants : SOCIETE ANONYME DITE : SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE, OF 37, BOULEVARD DE MONTMOENCY, 75016 PARIS, FRANCE; & OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES (O.N.E.R.A.), OF 29, AVENUE DE LA DIVISION LECLERC 92320-CHATILLON, FRANCE.

Inventors : 1. MICHAEL VINCENT DE PAUL, 2. JEAN-JACQUES THIBERT, 3. JACQUES GALLOT, 4. GEORGES VINGUT.

Application No. 1284/Cal/79 filed December 10, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 16 Claims

A blade profile for rotary wing of an aircraft, comprising between the leading edge and the trailing edge, a convex upper surface and a non-concave lower surface, wherein at the point of maximum curvature of the leading edge, the radius of curvature  $R_0$  is approximately defined by the expression  $R_0 = 1.7 C \cdot e^{\frac{1}{\max}}$  in which  $C$  represents the chord and  $e^{\frac{1}{\max}}$  the maximum relative thickness of said profile, and the portion of lower surface adjacent said leading edge comprises a first lower surface zone immediately adjacent the leading edge and extending to a few per cent of the chord  $C$ , in which the curvature decreases rapidly in the direction of the trailing edge and a second lower surface zone prolonging the first and extending up to about 20% of the chord from said leading edge, this second lower surface zone having a very small general curvature decreasing continuously in the direction of the trailing edge up to the point of minimum curvature of the lower surface which is located at the end of said second zone.

Compl. Specn. 20 pages. Drgs. 5 sheets.

CLASS : 128-A.

157409

Int. Cl. A 61 L 19/00.

**A PROCESS FOR PREPARING DRAWN AND HIGHLY ORIENTED THERMOPLASTIC SURGICAL FILAMENTS.**

Applicant : ETHICON, INC. OF ROUTE 22, SOMERVILLE, NEW JERSEY 08876, NEW JERSEY, UNITED STATES OF AMERICA.

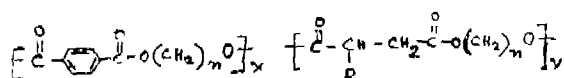
Inventor : 1. SHALABY WAHBA SHALABY, 2. EDGAR SCHIPPER.

Application No. 1249/Cal/81 filed November 10, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims

A process for preparing drawn and highly oriented thermoplastic surgical filaments comprising melt extruding a copolymer consisting essentially of multiplicity of recurring poly alkylene terephthalate and poly alkylene alkyl or alkenyl succinate units having the structure of general formula (1) of figure 1 of the accompanying drawings



3-507 GI/85

wherein  $n$  is 2 to 6,  $R$  is linear or branched alkyl or alkenyl radical with a chain length of 4 to 30 carbon atoms and  $X$  and  $Y$  are integers such that the poly alkylene terephthalate units comprise 70 to 90 mole percent of the copolymer and drawing at a drawn ratio of  $3x$  to  $7x$ .

Compl. Specn. 20 pages. Drg. 1 sheet.

CLASS : 123.

157410

Int. Cl. C 05 b 11/00.

**A PROCESS FOR THE PRODUCTION OF NP FERTILIZERS.**

Applicant : THE FERTILIZER (PLANNING & DEVELOPMENT) INDIA LTD., OF C.I.F.T. BUILDINGS, P.O. SINDRI, PIN-828122, DIST. DHANBAD, BIHAR, INDIA.

Inventors : 1. LALLU SINGH CHAUHAN, 2. ALAKH-DHARI PANDEY, 3. SATYENDRA VARMA.

Application No. 1383/Cal/81 filed December 4, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 11 Claims

A process for the manufacture of NP fertilizers from rock phosphate which comprises subjecting rock phosphate to digestion by nitric acid characterized in that said rock phosphate is low grade rock phosphate having as high as 26 to 50%  $\text{R}_2\text{O}_3$  impurities which is subjected to a step of acid digestion with low strength nitric acid of 15 to 30% strength followed by allowing the acidulated mixture to settle in order to enable the insoluble impurities to settle, whereafter the clear liquid is recovered, the clear acidulated liquid product thus obtained is adjusted to a pH in a range of 3 to 7 whereafter the said pH adjusted liquid is reacted with ammonium sulphate solution, the gypsum thus obtained is filtered and recovered in the manner known per se and thereafter subjecting the filtrate obtained after removal of gypsum to a step of ammoniation and recovering NP fertilizers in a manner known per se.

Compl. Specn. 15 pages. Drg. nil.

CLASS : 172-B.

157411

Int. Cl. D 01 h 11/00.

**APPARATUS FOR CLEANING SPINNING ROTORS**

Applicant : MASCHINEFABRIK RIETERAG., OF WINTERTHUS, SWITZERLAND.

Inventor : 1. ANDRE LATTION.

Application No. 804/Cal/82 filed July 13, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 12 Claims

Apparatus for cleaning spinning rotors comprising a cleaner cover which can be placed on the rotor housing of the rotors to be cleaned and the rotatable blower head, the axis of rotation of which coincides substantially with that of the rotor, characterized in that a suction channel (16) is provided leading through the cleaner cover (19), in that the blower head (18) is movable parallel to its axis of rotation from its working position, in which its face directed towards the rotor (11) is located near the free edge (34) of the rotor (11) and forms with the free edge (34) thereof the round gap (35), into a second working position in which the blower head (18) is extended into the internal space of the rotor (11), and in that there is at least one cleaning channel (25) serving for production of an air jet which channel is connected with a pressure air lead (29) serving for selective feed of pressure air to the cleaning channel (25).

Compl. Specn. 14 pages. Drgs. 2 sheets.

CLASS : 32-F, a.

157412

CHOWRINGHEE ROAD, CALCUTTA 700071, WEST BENGAL, INDIA.

Int. Cl. C 07 c 119/04.

PROCESS FOR THE PREPARATION OF ORGANIC ISOCYANATES AND DERIVATIVES THEREOF.

Applicant : IEL LIMITED, FORMERLY KNOWN AS INDIAN EXPLOSIVES LIMITED, OF ICI HOUSE, 34,

Inventors : 1. SUMIT BHADURI, 2. KRISHNA R. SHARMA, 3. KALPATHI GOPALKRISHNAN.

Application No. 742/Cal/82 filed June 25, 1982.

Complete specification left on 14th April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 claims

A process for the preparation of organic isocyanates and derivatives thereof which comprises reacting in a solvent of the kind such as herein described at a temperature of from 30°C to 200°C and at a pressure ranging from ambient pressure to 500) p.s.i. nitrobenzene or 2, 4-dinitrotoluene with carbon monoxide or a mixture of carbon monoxide and inert gas in the presence of as catalyst a polynuclear metal carbonyl or derivative thereof of the formula :

$$M(CO)_xL_zn,$$

$$x, y, z, \text{ wherein}$$

M=	Fe	x = 3	Y = 12	z = 0	n = 0
	Fe	x = 3	Y = 11	z = 1	L = Hn = 1
	Ru	x = 3	Y = 12	z = 0	n = 0
	Ru	x = 3	Y = 11	z = 1	L = Hn = 1
	Ru	x = 4	Y = 12	z = 4	L = Hn = 0
	Rh	x = 6	Y = 16	z = 0	n = 0
	Pt	x = 15	Y = 30	z = 0	n = 2

Provisional Specification 4 pages. Drg. Nil

Compl. Specn. 9 pages. Drg. Nil.

CLASS : 23-H.

157413

7 Claims

Int. Cl. H 05 k 5/02, 7/00.

CIRCUIT BOARD MODULE MOUNTING UNIT

Applicant : THE BABCOCK &amp; WILCOX COMPANY, AT 1010 COMMON STREET, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventor : 1. ADWARD FRANK STOCKMASTER.

Application No. 849/Cal/82 filed July 22, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A circuit board module mounting unit for mounting a series of circuit board control modules comprising :

a pair of side plates;

a first bracket mounted between the lower front corners of said pair of side plates to have a series of apertures along the face of said bracket;

a second bracket mounted between the upper front corners of said pair of side plates;

a series of support brackets spacedly-mounted along the lengths of said pair of side plates to separate said plates; and

a series of channel strips parallel-mounted across said series of support brackets to form guideways for the circuit boards of said circuit board control modules.

Compl. Specn. 11 pages. Drg. 1 sheet.

CLASS : 141-D.

157414

Int. Cl. E 21 c 41/14.

A METHOD FOR RETRIEVING MINERALS FROM EARTH STRATA.

Applicants & Inventors : (1) MIRON TUVAL, OF 21 EZION ST., RAMAT GAN 52383, ISRAEL; (2) EMANUEL AZMON, OF 16 OREN ST., OMER, ISRAEL; (3) AVRAHAM MELAMED, OF 31 HAORANIM ST., KFAR SHAMARYAHU 45 263, ISRAEL.

Application No. 947/Cal/82 filed August 11, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A method for retrieving minerals from earth strata comprising the steps of locating a subterranean formation of a calcareous rock in admixture with one or more silicate minerals capable of undergoing an accelerated enthalpic degradation, boring at least one bore hole leading into said formation, inducing the initiation of a self-sustaining accelerated enthalpic degradation reaction in the bore hole, flushing the bore hole with water, capturing and collecting steams emerging from the bore hole and withdrawing therefrom some of the water charged into the bore hole in form of a mineral bearing aqueous phase as soon as the bottom region of said bore hole has cooled down and subjecting the so withdrawn aqueous phase to operations for the recovery of minerals therefrom.

Compl. Specn. 18 pages. Drgs. 3 sheets.

CLASS : 85-D.

157415

Int. Cl. F 27 b 14/00.

RESISTANCE-HEATED BOAT FOR METAL VAPORIZATION.

Applicant : KENNECOTT CORPORATION, OF TEN STAMFORD FORUM STAMFORD, CONNECTICUT-06904, U.S.A.

Inventor : 1. DENNIS W. BARSHTER.

Application No. 968/Cal/82 filed August 19, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A resistance-heated boat being a container or a crucible for vacuum vaporization of metals comprising :

(a) a heating portion,

(b) a crucible portion, and

(c) said portions being separated by a heat conducting, substantially electrically non-conducting portion.

Compl. Specn. 18 pages. Drgs. 2 sheets.

CLASS : 94-G.

157416

Int. Cl. B 02 23/02.

**CENTRIFUGAL MILL HAVING A HORIZONTAL CYLINDRICAL GRINDING DRUM.**

Applicant : METALLGESELLSCHAFT A.G., OF 16 FRANKFURT A.M., REUTERWEG, WEST GERMANY.

Inventors : 1. GUNTER SCHNEIDER, 2. KONRAD SCHYMURA.

Application No. 969/Cal/82 filed August 19, 1982.

Complete Specification left on 29th April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**4 Claims**

A centrifugal mill which has a horizontal cylindrical grinding drum that rotates about its own drum axis and at the same time revolves along a circular orbit about a stationary axis of revolution which is parallel to the drum axis at a revolutions ratio  $r = -1$  so that the drum does not perform an absolute rotational movement about its own axis, which is spaced from the axis of revolution by a distance that is smaller than the radius of the grinding drum comprising a driving mechanism for rotating the grinding drum about the drum axis and for revolving the grinding drum on the circular orbit, a feeder provided at one end portion of the grinding drum which does not perform an absolute rotational movement about its own axis and a discharge device provided at the other end portion of the grinding drum, characterized in that the feeder consists of a generally horizontally extending pipe (1), which is connected at one end to the end portion (2) of the grinding drum (3) by an articulated joint; (4) and is mounted at its other end in a stationary articulated joint (5) and is provided in front of the stationary articulated joint (5) with an upwardly directed inlet branch pipe (6) a retainer (7) is provided to prevent a rotation of the pipe (1) and the axis of the pipe (1) is approximately horizontal in the  $0^\circ$  and  $180^\circ$  positions of the grinding drum on the circular orbit.

Prov. Specn. 6 pages. Drgs. 3 sheets.

Compl. Specn. 8 pages. Drgs. 2 sheets.

CLASS : I 127-I.

157417

Int. Cl. B 23 b 13/04.

**MACHINING APPARATUS FOR PRODUCTION LINES**

Applicant : HONDA GIKEN KOGYO KABUSHIKI KAISHA OF 27-8, JINGUMAE 6-CHOME, SHIBUYA-KU, TOKYO, JAPAN.

Inventors : 1. MINORU HIROYASU, 2. HITOSHI HASHIMOTO, 3. SUSUMU YAMADA, 4. MASAKI MIYANAKA, 5. HIDEHARU KOIZUMI.

Application No. 1475/Cal/82 filed December 21, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**12 Claims**

Machining apparatus for a production line comprising :

- a base;
- a frame mounted on said base;
- at least one horizontal rotary table mounted on said base;
- means for indexing said horizontal rotary table;
- a support member fixed at a lower portion to said horizontal rotary table and rotatably supported at an upper portion from said frame concentrically with the centre of rotation of said horizontal rotary table;
- vertically spaced holding rail members extending in a horizontal direction mounted on said support member and adapted to hold a pallet forming a jig for holding a workpiece
- a spindle head for machining a workpiece on said pallet;
- means for controlling said spindle head;
- a conveyance line capable of conveying said pallet; and

means for transferring said pallet between said conveyance line and said holding rail members.

Compl. Specn. 21 pages. Drgs. 5 sheets.

CLASS : 172 C<sub>+</sub>+F.

157418

Int. Cl. : D 01h 13/00.

**AN OPTO-MECHANICAL-CUM-ELECTRIC DEVICE FOR MEASURING AND DISPLAYING FIBROUS MATERIAL LENGTH AND OPTICAL THICKNESS PARAMETERS.**

Applicants : THE BOMBAY TEXTILE RESEARCH ASSOCIATION, LAL BAHADUR SHASTRI MARG, GHATKOPAR (WEST), BOMBAY-400 086, MAHARASHTRA, INDIA.

Inventors : (1) SHOBH NATH MISRA AND (2) MAN-NATH RADHAKRISHNAN.

Application No. 95/Bom/1982 filed April 15, 1982.

Post dated to Sep 15, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

**22 Claims**

An opto-mechanical-cum-electronic device for measuring and displaying fibrous material length and optical thickness parameters, said device comprising a fibrous material moving and linear displacement measuring system, said system consisting of two upright members spaced apart face to face and rigidly supported on a chassis, two link-cum-guide members spaced part face to face and rigidly supported in and between said upright members, a spindle positioned between said link-cum-guide members and rotatably supported in said upright members, a synchronous reversible type motor supported on said chassis and connectable to a power supply, the shaft of said motor being coupled to one end of said spindle through gears, a fibrous material carrier so supported on said spindle and link-cum-guide members that said carrier slides linearly on said spindle and is guided by said link-cum-guide members when said spindle rotates, said carrier having a comb detachably rigidly supported thereon, said comb being for supporting fibrous material whose length and optical thickness parameters are to be measured and displayed, means for limiting, linear movement of said carrier, said means consisting of two limit switches connectable to said power supply and connected to the starter of said motor and so provided on said chassis and an actuator so provided on said carrier that when said carrier reaches the limit in one direction said actuator actuates one of said limit switches to switch off said motor and stop the movement of said carrier in that direction and when said carrier reaches the limit in the opposite direction said actuator actuates the other of said limit switches to switch off said motor and stop the movement of said carrier in the said opposite direction, a two way switch provided on said chassis and connectable to said power supply and connected to the starter of said motor, said two way switch being for starting and reversing said motor, a slotted disc rigidly supported on said spindle at its one end, a first photocoupler connected to a regulated power supply circuitry and so supported on one of said upright members adjacent to said one end of said spindle that said slotted disc intercepts the beam of light in said first photocoupler said regulated power supply circuitry being connectable to said power supply, the number of electric pulses generated by said photocoupler being equal to the number of interceptions of the beam of light in said photocoupler by said slotted disc while rotating and proportional to the linear displacement of said carrier; a light arrangement consisting of an incandescent lamp provided in a non-refractive material casing and connected to said regulated power supply circuitry, said casing being supported on said chassis, a light emitter provided with a long narrow opening and so supported on said chassis that said opening faces said carrier from above, a fibre optic cable one end of which is connected to said casing and exposed to said lamp and the other end of which is connected to said emitter and exposed through said opening and a cylindrical lens supported on said emitter at the mouth of its opening; a photovoltaic cell assembly and voltage linearisation circuitry, said assembly consisting of an insulating and

non-refractive material housing provided with a slit and so supported on said chassis that its slit faces said carrier and the opening of said emitter from below, said housing containing a first pair of selenium photocells placed in its slit one below the other, the upper photocell being in the open mode with its face upwards and exposed to light falling in said slot and the lower photocell being in the forward bias mode with its face reversed with respect to the face of said upper photocell said housing further containing a second pair of selenium photocells placed in its slit in the same manner as the said first pair of photocells being connected to said regulated power supply circuitry and acting as reference photocells, said voltage linearisation circuitry being connected to said regulated power supply circuitry and consisting of a first voltage comparator connected to the upper photocell of said first pair of photocells through a buffer circuit and voltage linearisation circuit and to the lower photocell of said first pair of cells through a buffer circuit and voltage amplifier circuit, a second voltage comparator circuit connected to the upper photocell of said second pair of photocells through a buffer circuit and voltage linearisation circuit and the lower photocell of said second pair of photocells through a buffer circuit and voltage amplifier circuit, each of the said first and second voltage comparators being connected to an adder circuit through an inverter and said adder circuit being connected to a linearised instant voltage giving circuit, said linearised instant voltage giving circuit giving a linearised instant voltage proportional to the optical thickness of said fibrous material intercepting light falling on said upper photocells of said first and second pair of photocells; a process logic circuit connected to said regulated power supply circuitry; a pair of decay free analogue voltage memory storage circuitries, each of said decay free analogue voltage memory storage circuitries being connected to said regulated power supply circuitry and parallel to the other and consisting of two parallel analogue voltage storage circuits, the decay rate of one of said analogue voltage storage circuits being twice that of the other, each of said analogue voltage storage circuits being connected to the said linearised instant voltage giving circuit of said photovoltaic cell assembly and voltage linearisation circuitry through an analogue gate and buffer circuit, the analogue gates corresponding to said analogue voltage storage circuits being connected to said process logic circuit, said analogue voltage storage circuits being further connected to a memory erase circuit and a subtraction circuit, an adder circuit connected to said subtraction circuit and said other analogue voltage storage circuit and an inverter circuit connected to said adder circuit and a decay free analogue voltage memory giving circuit, one of said decay free analogue voltage memory storage circuitries being designed to give decay free analogue voltage memory of certain value and the other of said decay free analogue voltage memory storage circuitries being designed to give decay free analogue voltage memory of certain other value; a process circuitry connected to said regulated power supply circuitry and consisting of a subtraction circuit connected to the decay free analogue voltage memory giving circuit of each of the said first and second analogue voltage storage circuitry and second decay free analogue voltage memory storage circuitry and to an analogue meter display, a first analogue comparator, a second analogue comparator, a third analogue comparator and a fourth analogue comparator each of said first, second, third and fourth comparators being connected to said subtraction circuit of said process circuitry and to the linearised instant voltage giving circuit of said photovoltaic cell assembly and voltage linearisation circuitry and preset to give a signal when the linearised instant voltage compared to the subtracted voltage from said subtraction circuit of said process circuitry is below a preset value, above a preset value, at a preset intermediate value between said certain value and said certain other value and said certain other value respectively; a digital logic circuitry connected to said regulated power supply circuitry and consisting of a digital logic gate connected to said first photocoupler of said system and to each of said first, second, third and fourth analogue comparators, a first digital display circuitry and a second digital display circuitry connected to said digital logic gate, each of said first digital display circuitry and second digital display circuitry consisting of a counter, a decoder and a digital display, said counters of said first digital display circuitry and said second digital display circuitry being connected to said memory erase circuit; a second photocoupler, a third photocoupler and a fourth photocoupler supported on said chassis in series, said second and fourth photocouplers being connected to said regulated power supply circuitry and said process logic circuit and said third photocoupler being connected to said logic gate; and an interceptor so supported

on said carrier that it intercepts the beam of light in said second, third and fourth and fourth photocouplers in sequence while said carrier moves linearly, said process logic circuit said process circuitry and said digital logic circuitry operating in a predetermined manner and sequence to measure and display length and optical thickness parameters of said fibrous material.

Complete specification 30 pages. Drgs. 7 sheets.

Provisional specification 3 pages. Drgs. nil.

CLASS : 133 B.

157419

Int. Cl. : G 05 f 3/00.

AN IMPROVED ELECTRIC REGULATOR OF THE CHOKE TYPE AND A LOAD SUCH AS ELECTRIC FAN OR LAMP OR THE LIKE HAVING SAID IMPROVED ELECTRIC REGULATOR CONNECTED THERETO.

Applicant : CROMPTON GREAVES LIMITED, OF 1, DR. V. B. GANDHI MARG, BOMBAY-400 023, MAHARASHTRA, INDIA, AN INDIAN COMPANY.

Inventor : SHEETALKUMAR HARISHCHANDRA MANE, SHYAM DATTATRAYA AGNIHOTRI.

Application No. 71/Bom/1983, filed on Mar 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 4 Claims

An improved electric regulator of the choke type, said regulator comprising a rotary switch and a choke, said switch having at least three terminals, one of the terminals of said switch being connectable to a power supply, the second terminal and the last terminal of said switch being connected to the ends of the coil of said choke and intermediate terminal(s), if any, between said second terminal and said last terminal of said switch being connected to predetermined intermediate tapping(s) at intermediate position(s) of the coil of said choke, said switch further having a multicontact linked to and rotatable with respect to said one terminal, said multicontact being so designed as to connect said one terminal to each following terminal of said switch in succession and finally to interconnect or short all the terminals of said switch, a load such as electric fan or lamp or the like being connectable to said power supply and to a predetermined tapping at an intermediate position of the coil of said choke, said predetermined tapping corresponding to said load being different from said intermediate tapping(s) corresponding to said intermediate terminal(s), said tapping and intermediate tappings being so selected that when said one terminal is connected to each following terminal of said switch in succession by rotation said multicontact varying portions of said choke is introduced in the path of current flowing from said power supply to said load and said portions being so designed that their impedance vary correspondingly varying the flow of current to said load and when all the terminals of said switch are interconnected or shorted by rotating said multicontact, current flows through said portions from directly opposite directions resulting in flux cancellation and minimisation of impedance of said choke to permit rated current to said load, said regulator being enclosed in a casing or housing of any electric insulation material.

Compl. specn. 15 pages. Drgs. 8 sheets.

CLASS : 170 B.

157420

Int. Class : C 11 d, 7/54, 7/56.

IMPROVED PEROXIDE ADDUCT CONTAINING BLEACH COMPOSITIONS.

Applicants : HINDUSTAN LEVER LTD., HINDUSTAN LEVER HOUSE, 165-166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : (1) GULZARI LAL MADAN & (2) BOKINKERE CHENNAKESHAVALAH SUBBA RAO.

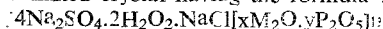
Application No. 78/Bom/83 filed Mar 11, 1983.

Complete after provisional left Mar 9, 1984.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Bombay Branch.

#### 5 Claims

An alkaline peroxide bleach detergent composition comprising a surfactant and an adduct of sodium sulphate, hydrogen peroxide, sodium chloride and an alkalimetal phosphate, in the form of a mixed crystal having the formula :



wherein M is alkalimetal, x is a number from 1-3, y is a number from 0.5 to 2, and n is a number from 0.1 to 1.

Compl. Specn. 10 pages. Drgs. nil.

Provisional specification 8 pages. Drg. nil.

CLASS : 65 A4.

157421

Int. Class : H 02 j 3/00.

CIRCUIT ARRANGEMENT FOR STATIC CONVERSION OF A SINGLE PHASE SUPPLY INTO THREE PHASE SUPPLY.

Applicants : SAGAON ENERGY EQUIPMENT PVT. LTD., 6 SUKH-SHANTI, 870 GOKHALE ROAD, CROSS LANE NO. 2, BOMBAY-400 028, MAHARASHTRA, INDIA

Inventor : UDAY TRIMBAK KAKIRDE.

Application No. 97/Bom/1983 filed Mar 25, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 4 Claims

A circuit arrangement for static conversion of a single supply into a three phase supply, comprising a variable d.c. excitation feed circuit magnetically coupled to the magnetic amplifier, the said magnetic amplifier being connected in series with primary of the single phase transformer and the secondary of the said transformer being parallelly connected to a filter and harmonic suppression circuit, a scott connected transformer having a main transformer and a teaser transformer, the primary of the said main transformer being fed from secondary of the said single phase transformer and primary of the said teaser transformer being directly fed from a single phase A.C. Supply, such that the said fed voltages are in 90° out of phase position with each other and by way of the said scott connection to give a three phase supply A.C. output from the secondary terminals of the said scott connected transformer.

Compl. Specn. 4 pages. Drg. 1 sheet.

CLASS : 170 B.

157422

Int. Class : C 11 d 3/08.

PROCESS FOR THE PREPARATION OF AMORPHOUS HYDRATED SODIUM ALUMINOSILICATES.

Applicants : HINDUSTAN LEVER LIMITED, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : (1) COLLIN AKTINSON, (2) ROGER BRACE, (3) NATHAN BURAK.

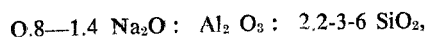
Application No. 195/Bom/1983 filed Jun 17, 1983.

Convention dated 21st June 1982 (8217881) Great Britain.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Bombay Branch.

#### 9 Claims

A process for the preparation of an amorphous hydrated sodium aluminosilicate of chemical composition calculated on an anhydrous basis :



having a calcium ion-exchange capacity greater than 100 mg CaO/g determined for example by method herein described, a magnesium ion-exchange capacity greater than 50 mg MgO/g, determined for example by method herein described, an average particle size in the range 2 to 20  $\mu\text{m}$ , and the ability to form a filter cake having a solids content in the range 35-50%, in a filter press with a closing pressure of 5.62 kg/cm<sup>2</sup>, which filter cake can be converted into a pumpable slurry in said solids range, and having a silicate resistance (as herein define) such that the second order rate constant  $K_s$  for the calcium ion-exchange process is greater than  $0.2^\circ\text{H}^{-1} \text{ min}^{-1}$  and a residual water hardness after 10 minutes of less than  $1.5^\circ\text{H}$  and which after drying at  $50^\circ\text{C}$  to 70% solids has a rate constant  $k_d$  (as herein define) greater than  $0.42 \text{ OH}^{-1} \text{ min}^{-1}$  and a residual water hardness after 10 minutes of less than  $1 \text{ OH}$ , which comprises intimately mixing (i) aqueous sodium silicate, having a composition  $\text{Na}_2\text{O} \text{ 2-4 SiO}_2$ ; and (ii) aqueous aluminate having a composition  $1\text{—}2 \text{ Na}_2\text{O Al}_2\text{O}_3$  and a concentration in the range 0.5 to 2.0 moles/litre  $\text{Al}_2\text{O}_3$ , at a temperature in the range  $15\text{—}45^\circ\text{C}$  in a mixing device to produce sodium aluminosilicate composition which is immediately subjected to high shear in a disintegrator to produce a particle size of aluminosilicate less than 20  $\mu\text{m}$ .

Compl. Specn. 17 pages. Drgs. nil.

CLASS : 119 E.

157423

Int. Class : D 02 h. 13/00.

AN IMPROVED AUTOMATIC WARP TENSION REGULATOR FOR WEAVING LOOMS.

Applicants : AHMEDABAD TEXTILE INDUSTRIES RESEARCH ASSOCIATION, P.O. POLYTECHNIC, AHMEDABAD-380 015, GUJARAT, INDIA.

Inventors : (1) SAMIR RAJNIKANT JOSHI & (2) PRADYUMANSINH BALVIRSHINGH JHALA.

Application No. 238/Bom/1983 filed Aug 4, 1983.

Complete after provisional Mar 16, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 4 Claims

An automatic warp tension regulator for weaving looms, comprising a band brake wrapped around the ruffle of the warp beam at its either end through a predetermined angular distance, one end of the said band brake is adjustably fitted, while the other end thereof is connected to a lever, one end of the said lever being securedly fitted onto a pivotable shaft for a holding bracket of a back rest over which the warp sheet from the warp beam is caused to be traversed, and the other end of the lever being suspended by a spring, the tension whereof is adapted to be adjusted manually depending on the desired tension on the warp sheet to be maintained, the said holding bracket of the back rest and the said lever thus defining a bent lever having its fulcrum at the said shaft, and the dimensional and positional relationship of the aforesaid components amongst each other being governed by the formula :

$$L = \frac{h \cdot P \cdot \left( \frac{e^{\frac{u}{C}} - 1}{C} \right)}{C}$$

Where L = distance between the centre of the warp beam and that of the back rest;

h = radius of the ruffle of the warp beam;

p = distance between the centre of the back rest and the fulcrum point of the bent lever;

e = base for natural logarithms;

q = subtended angle through which the band brake is wrapped on the warp beam ruffle;

u = coefficient of friction; (between the band brake and warp beam ruffle);

C = linear distance between the periphery of the back rest and the connecting point of the band brake with the lever.

Complete specification 13 pages. Drgs. 2 sheets.

Provisional Specification 4 pages. Drg. 1 sheet.



CLASS : 134 B, 127G.

157424

Int. Class : B 60 K 17/00.

**AN AUTOMATIC MECHANICAL POWER TRANSMISSION SYSTEM.**

Applicant : GUR SARAN SINGH, C/O, MR. CHARAN SINGH, 205 E SHIMALA HOUSE, NEPANCHI ROAD, MALABAR HILL, BOMBAY, INDIA.

Application No. 240/Bom/1983 filed Aug 9, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

**3 Claims**

An automatic variable speed power transmission system comprising an input shaft coupled directly to a prime mover, an output shaft, a plurality of input gears having different numbers of teeth, rotatably mounted on the input shaft, an equal member of output gears mounted on the output shaft and meshing with the corresponding input gears providing different speed transmission ratios, a centrifugal clutch for each pair of the input and the output gears, the force of springs and the weights of the flyweights of the different clutches being different ensuring actuation of the clutches at different predetermined speeds of the input shaft, the first clutch being mounted on the input shaft the other clutches being mounted on the input or output shaft, the gears not having clutches being keyed to the input shaft, or the output shaft respectively and a free wheel or other one way coupling device on the input shaft or output shaft, secured to each centrifugal clutch other than the last clutch, the output shaft being driven by the input shaft at different pairs of gears, the free wheel or other one way coupling devices of the clutches not actuated over-running the corresponding shaft.

Complete specification 9 pages, Drg. 1 sheet.

CLASS : 84 B + C 1.

157425

Int. Class : C 10 1 1/32.

**METHOD OF MANUFACTURING STABILIZED SEMI-SOLID COMPOSITE OIL BASED FUEL FROM COAL, LIGNITE OR ANTHRACITE FOR USE AS LIQUID FUEL.**

Applicants : THE ASSOCIATED CEMENT COMPANIES LTD., "CEMENT HOUSE", 121 MAHARSHI KARVE ROAD, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : SHOK KUMAR JAIN, (2) VINOD CHINTA-MANI MALSHE (3) DIPAK MANSUKHLAL SHETH. (4) JAYANT VASANT KHOLGADE & (5) PRATAP DATTATRAY SURVE.

Application No. 249/Bom/1983 filed Aug 11, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

**4 Claims**

A method of manufacturing stabilized semi-solid composite oil based fuel slurry from coal/lignite/anthracite for use as liquid fuel comprises the steps of grinding/pulverising coal/lignite/anthracite in a ball mill after assessing its moisture content and vigorously stirring/agitating it in oil medium of the type herein described so as to form an emulsion, adding to said emulsion surface active agent/s of the type herein described in water medium so as to form a composite fuel slurry and wherein said surface active agent/s added to water is in the proportion varying from 1%—20% by weight of water and the concentration thereof is varied depending on the moisture content of said emulsion and wherein the percentage of coal/lignite/anthracite in the emulsion varies from 10—70% and the surfactant in either phase varies from 0.001%—2% and water content varies from 30%—70% and more preferably 50% depending upon the viscosity of oil medium used while preparing said emulsion and characterised in that the surface active agent/s used in one phase should not be

soluble in the other phase and the functional groups present in the two surface active agents are identical and have mutual attraction by hydrogen bonding or other inter-molecular attraction/adsorption which impart said slurry desired stability without any settling, agitation or stirring under heat during transportation or storage at ambient temperature.

Complete Specification 14 pages. Drg. nil.

CLASS : 143 D<sub>1</sub> + D<sub>2</sub>.

157426

Int. Class : B 65 b-5/04.

**A PRIMARY PACKAGE FOR AN ARTICLE OF FRAGILE AND/OR EASILY BREAKABLE NATURE.**

Applicant : VIJAY GOVIND GOKHALE, OF BOMBAY CHEMICALS PRIVATE LIMITED, 129 MAHATMA GANDHI ROAD, BOMBAY-400 023, MAHARASHTRA, INDIA, AN INDIAN NATIONAL.

Application No. 270/Bom/1983, filed on 5 Sep., 1983.

Complete after Provisional left on 27th Aug., 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

**3 Claims**

A primary package for an article of fragile and/or easily breakable nature, said package comprising a jacket made of a material such as herein described and a pair of membranes spaced apart and stretched and fixed at opposing ends of said jacket, said membranes being made of a material such as herein described, said article being supportable between said membranes.

Provisional specification 4 pages. Drgs. 3 sheets.

Complete specification 5 pages. Drgs. nil.

CLASS : 157 D 6 a+b+c.

157427

Int. Class : E01b 9/46, 9/60, 9/62.

**ADJUSTABLE RAIL CLAMP FOR ALIGNING GAUGE BETWEEN A PAIR OF RAILS ANCHORED TO RAIL FOUNDATION.**

Applicants : ELECON ENGG. COMPANY LTD., VAL-LABH VIDYANAGAR-388 120, GUJARAT, INDIA.

Inventor : MAHENDRA CHUNTILAL PATEL.

Application No. 289/Bom/1983 filed Sep., 19, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Bombay Branch.

**2 Claims**

An adjustable rail clamp for aligning gauge between a pair of rails anchored to rail sleepers comprises a rail clip having a central double angle recess with a bore forming a seat for gland nut-cum-rail cap, said rail cap having eccentric hole diameter of which matching with rail bolt grouted in a rail foundation and secured thereto by a nut means, and a metal base plate having holes in a line sandwiched between rail foot and said rail foundation for mounting a pair of rail clips on either side of a rail foot for anchoring rail to rail foundation, said rail clip having a tapering notch at its front end forming a seat for said rail foot for gripping therebetween said respective rail foot wall for anchoring rail to rail foundation such that when said rail cap on respective rail clips is turned in clockwise or anticlockwise direction said rail clips together with rail foot is shifted/pushed linearly across rail base plate to accurately align the rail in parallel relation to the other of said rail on the said rail foundation at a distance of rail gauge.

Complete specification 8 pages. Drgs. 5 sheets.



## RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 137916 dated the 24th October, 1973 made by Hollandse Signaalapparaten B.V. on the 4th August, 1979 and notified in the Gazette of India, Part-III, Section 2 dated the 1st November, 1980 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 147768 dated the 12th September, 1977 made by Uno Johannes Lehtinen on the 1st July, 1985 and notified in the Gazette of India, Part-III, Section 2 dated the 2nd November, 1985 has been allowed and the said patent restored.

(3)

Notice is hereby given that an application for restoration of Patent No. 150056 dated the 21st July, 1978 made by Aktiebolaget Tudor on the 19th July, 1985 and notified in the Gazette of India, Part-III, Section-2, dated the 2nd November, 1985 has been allowed and the said patent restored.

(4)

Notice is hereby given that an application for restoration of Patent No. 152318 dated the 12th June, 1979 made by Aluminium Pechiney on the 13th May, 1985 and notified in the Gazette of India, Part-III, Section 2, dated the 21st September, 1985 has been allowed and the said patent restored.

(5)

Notice is hereby given that an application for restoration of Patent No. 152677 dated the 1st May, 1980 made by James Henry Haslam on the 28th June, 1985 and notified in the Gazette of India, Part-III, Section 2 dated the 2nd November, 1985 has been allowed and the said patent restored.

## PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specification are available for sale from the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi at two rupees per copy :—

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155987 155988 155989 155990 155991 155992 155993 155994  
155996 155997 155998 155999 156000 156001 156002 156003  
156004.

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156005 156006 156007 156008 156009 156010 156011 156012  
156013 156014 156015 156017 156018 156019 156020 156021  
156022 156023 156024 156025 156027 156028 156030 156031  
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156063 156064 156065 156067 156068 156069 156070 156071  
156072 156073.

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156106 156107 156108 156109 156110 156111 156112 156114  
156115 156116 156117 156118 156119 156120 156121 156122  
156123 156125 156126 156128 156131 156132 156133 156134  
156135 156136 156137 156138 156139 156140.

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156141 156142 156143 156144 156145.

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156146 156148 156149 156150 156152 156153 156156 156157  
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156181 156182 156183 156184 156185 156186 156187 156190  
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156207 156211 156213 156214 156215 156216 156217 156219  
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156248 156249 156250 156252 156255 156272.

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156277 156278 156279 156280 156282 156284 156286 156287  
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 156297 156299 156301 156303 156304 156305 156306.

## PATENTS SEALED

148012 151937 153503 153597 153890 154438 154901 154902  
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 155246 155251 155277.

## AMENDMENT PROCEEDINGS UNDER SECTION 57

(1)

The amendments proposed by the Marley Company, 5800 Foxridge Drive, Mission, Country of Johnson, Kansas-66202 U.S.A., in respect of Patent application No. 155084 as advertised in Part III, Section 2 of the Gazette of India dated the 28th September, 1985 have been allowed.

(2)

Notice is hereby given that Union Carbide Corporation Manufacturers, a corporation organised and existing under the laws of the State of New York, United States of America located at 270 Park Avenue, State of New York-10017, United States of America have made an application under Section 57 of the Patent Act, 1970 for amendment of specification of their application for Patent No. 155337 for "a process for preparing a catalyst containing 2 to 20 weight per cent silver deposited on a support for the commercial scale production of ethylene oxide". The amendments are by way of corrections. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700 017 or copies of the same can be had on payment of the usual copying charges.

Any person interested in opposing the same for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

## REGISTRATION OF ASSIGNMENTS, LICENCES ETC. (PATENTS)

Assignments, Licences or other transactions affecting the interests of the original Patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests.

141949 Himson Textile Engineering Industries  
 147073 Private Limited

## RENEWAL FEES PAID

136712 136758 136811 137355 137564 138497 138595 138767  
 139771 149801 140142 140386 141053 141686 141687 143246  
 143481 143587 144386 144525 144597 144715 144746 144900  
 144950 145207 145260 145743 145821 145944 146069 146229  
 146445 146649 146650 147062 147476 147710 148086 148543  
 149030 149034 149040 149358 149492 149523 149545 149848  
 150129 150443 150505 150631 150737 150789 150865 150938  
 151069 151122 151132 151133 151142 151204 151540 151612

151717 151997 152075 152093 152105 152208 152282 152499  
 152501 152520 152537 152567 152575 152596 152642 152643  
 152644 152661 152671 152672 152675 152678 152679 152680  
 152685 152688 152697 152705 152707 152725 152729 152736  
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 152761 152762 152763 152764 152776 152777 152782 152796  
 152797 152800 152801 152802 152803 152811 152816 152817  
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 153211 153215 153347 153469 153641 153857 153944 154102  
 154436 154468 155093.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 155975. Marvel Products, 27, Ratansi Champs Road (Picket Cross Road), Bombay-400 002 Maharashtra, India, an Indian Partnership firm. "Bar Set Holder". 21st August, 1985.

Class 1. No. 156085. Reghbir Singh, Sobti Agro Industries, B-XXIII, 974/36, Ram Nagar, Samrala Road, Ludhiana-141008, India, Indian National, Garden Pruning Shears. 27th September, 1985.

Class 1. No. 156035. The Mentholum Company Limited, a British Company of Longfield Road, Twyford, Berkshire, England. "Deep Heat Spray Canister" 10th September, 1985.

Class 1. No. 155948. Application Des Gaz Societe Anonyme, a body corporate organized under the laws of France; of 173 rue de Bercy 75012 Paris, France, a "Isothermal recipient". 16th August, 1985.

Class 1. No. 156132. Associated Engineers, S.A., D.D.A., Sheds, Okhla Industrial Area, Phase-II, New Delhi-110020, Union Territory of Delhi, India a Partnership Firm. "Hydraulic Cable Cutter". 14th October, 1985.

Class 3. No. 155781. Plastella, (a registered Partnership firm) of 91 Swami Vivekanand Road, Borivli, (West), Bombay-400 092, Maharashtra State, India "Display Basket". 24th June, 1985.

Class 3. No. 155922. M/s. Richardson Hindustan Limited, a company incorporated under the Indian Companies Act, having its registered office at Tiecion House, Dr. E. Moses Road, Bombay-400 011, Maharashtra, India, "Container". 6th August, 1985.

Class 3. No. 155971. Ahir Harshadbhai Karshanbhai, Indian National of 10, Radhakunj Society, Memnagar, Ahmedabad-380 025, (Gujarat State), India. "Hood for Auto-Rickshaw". 20th August, 1985.

Class 3. No. 156147. V.I.P. Industries Limited, of V.I.P. House, 88C, Old Prabhadevi Road, Bombay-400 025, Maharashtra, India, an Indian Company. "Suitcase". 18th October, 1985.

Class 3. No. 156110. Crystal Plastics & Metallizing Private Limited, a Private limited company incorporated under the Indian Companies Act having its registered office at Sanghi House, Palkhi Galli, Off Vee Savarkar Marg, Prabhadevi, Bombay-400 025, Maharashtra State, India. "Comb". 8th October, 1985.

Class 3. No. 156138. Crystal Plastics & Metallizing Private Limited, Sanghi House, Palkhi Galli, Off Veer Savarkar Marg, Prabhavadi, Bombay 400 025, Maharashtra, India, a Private Limited company incorporated under the Indian Companies Act. "Comb". 16th October, 1985.

Class 3. No. 156025. Nilkamal Crates & Containers. 5, Rewa Chambers, 1st floor, New Marine Lines, Bombay 400 020, Maharashtra, India, an Indian Partnership Firm. "Bin". 6th September, 1985.

Class 3. No. 155899. Plessey Overseas Limited, a British Company of Vicarage Lane, Ilford, Essex, England. "a Telephone Instrument Body and Keyboard". Reciprocity 31st January, 1985 (U.K.).

Class 3. No. 156089. N. V. Philips', Gloeilampenfabrieken, a Company organized and existing under the laws of the Kingdom of The Netherlands, Groenewoudseweg 1, Eindhoven, the Netherlands. "a Dry Shaver". Reciprocity 16th August, 1985. (U.K.).

Class 3. No. 155997. Mek Engineering Works Limited, a Public limited company incorporated under the Indian Companies Act, whose address is Sanyam, Naupad, M.G. Road, Thane-400 602, State of Maharashtra, India, "Multipurpose Rack". 30th August, 1985.

Class 3. No. 155998. Mek Engineering Works Limited, a Public limited company incorporated under the Indian Companies Act, whose address is Sanyam, Naupada, M.G. Road, Thane-400 602, State of Maharashtra, India. "Tray". 30th August, 1985.

Class 3. No. 155949. Application Des Gaz Societe Anonyme, a body corporate organized under the Laws of France; of 173 rue de Bercy 75012 Paris, France. "a Isothermal recipient". 16th August, 1985.

Class 4. No. 155923. M/s. Richardson Hindustan. Limited, a company incorporated under the Indian Companies Act, having its registered office at Ticcicon House, Dr. E. Moses Road, Bombay-400 011, Maharashtra, India. "Container". 6th August, 1985.

Class 4. No. 156305. JG Glass Ltd., Pimpri, Pune 411018, Maharashtra State, India, an Indian, an Indian Company. "Bottle". 15th November, 1985.

Class 5. No. 156196. Step in Exports, 103E, Block 'F', New Alipore, Calcutta-700 053, West Bengal, India, Proprietorship firm. "Video Cassettes Box". 30th October, 1985.

Class 5. No. 156197. Step in Exports, 103E, Block 'F', New Alipore, Calcutta-700 053, West Bengal, India Proprietorship firm. "Video Cassettes Box". 30th October, 1985.

Class 12. No. 1559353. Britannia Industries Limited of 5/1A, Hangerford Street, Calcutta-700 017 West Bengal, India, a Company incorporated under the Companies Act, 1913. "Biscuit". 16th August, 1985.

Extn. of Copyright for the Second period of five years.  
Nos. 150878, 150879, 150880, 150881.

150882, 150883 . . . . . Class 1.  
No. 150264 . . . . . Class 3.  
No. 148731. . . . . Class 4.  
No. 150345. . . . . Class 12.

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Alsthom.—556/Del/85, 585/Del/85.	
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Armstrong World Industries, Inc.—540/Del/85.	
Atkemix, Inc.—494/Cal/85.	
Ayyathurai, R.C.S.C. P.C.—518/Mas/85.	

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BGB-Gesellschaft Reinmar John, Rainer-leo Meyer & Olga Meyer, GEB, Klopfer.—577/Del/85.
BICC Public Ltd. Co.—608/Del/85, 609/Del/85.
BOC Group Plc, The.—540/Mas/85, 541/Mas/85.
BP Chemicals Ltd.—562/Del/85, 563/Del/85.
B. V. Machine fabriek v/h Pannevis & ZN.—527/Del/85.
Babcock & Wilcox Company.—562/Cal/85.
Baltensperger, E.—501/Cal/85.
Banik U.K. (Dr.).—552/Cal/85.
Bauman, J.—583/Del/85.
Bayer Aktiengesellschaft.—555/Del/85.
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Beloit Corporation.—541//Cal/85.
Bendix France.—573/Del/85, 574/Del/85, 575/Del/85.
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Betz International, Inc.—514/Cal/85, 525/Cal/85.
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## D

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Dholaria, K. R.—169/Bom/85.

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Gupta, D. N.—602/Del/85.

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Gupta, R. R.—559/Del/85.

## H

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Indian Institute of Technology.—530/Mas/85, 549/Mas/85, 581/Mas/85, 582/Mas/85.

Industrial Electronic Products.—178/Bom/85.

Institut Bioorganich eskoi Khimii Imeri M. M. Shem-yakina Akademii Nauk SSSR.—509/Cal/85.

Institut Francais du Pétrole.—524/Mas/85.

Institut Metallurgii I Obogaschenia Akademii Nauk Kazakh skoi SSR.—546/Cal/85.

International Business Machines Corporation.—505/Mas/85, 506/Mas/85, 515/Mas/85, 550/Mas/85, 551/Mas/85, 562/Mas/85, 563/Mas/85, 564/Mas/85.

International Standard Electric Corporation.—536/Mas/85, 556/Mas/85.

International Totali zator Systems, Inc.—532/Mas/85.

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Jaichand D.—529/Mas/85.

Japan Pipe Conveyor Co. Ltd.—513/Cal/85.

Jeumont-Schneider.—498/Mas/85.

Johnson &amp; Johnson.—497/Cal/85.

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Kimberly-Clark Corporation.—528/Mas/85.

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Kumar, J. (Dr.).—518/Del/85.

LSI Technologies, Inc.—522/Cal/85.

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Larsens &amp; Toubro Limited.—177/Bom/85.

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Sir Padampat Research Centre.—539/Del/85.	
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Societe D'Applications De Procèdes Industriels Et Chimiques S.A. P.I.C.—557/Del/85.	
Societe D' Applications Generales D'Electricite Et De Mecanique Sagem.—565/Del/85.	

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Sumitomo Chemical Company Limited.—554/Cal/85.		Volta Power Belting Ltd.—191/Bom/85.	
Sun Industrial Coatings Pvt. Ltd.—610/Del/85.		Vsesojuzny Nauchno-Issledo-Vatelsky I Proektny Institut Aljuminievoi, Magnievoi Elektrodoi Promyshlennosti.—508/Cal/85.	
Superphone India Pvt. Ltd.—166/Bom/85.		Vsesojuzny Nauchno-Issledo-Vatelsky Institut geetiki I Selektstil Promyshlennykh Mikro Organizm ov (Vniigenetika).—509/Cal/85.	
Syntex (U.S.A.) Inc.—521/Mas/85, 522/Mas/85.			W
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Testroet, A.T.E.—500/Mas/85.		Westinghouse Brake and Signal Co. Ltd.—538/Del/85, 551/Del/85, 596/Del/85.	
Texaco Development Corporation.—492/Cal/85.		Westinghouse Electric Corporation.—502/Cal/85, 503/Cal/85.	
Thangavelu, R.—594/Mas/85.		Worms, L.—550/Cal/85.	
Thiokol Chemicals Ltd.—564/Del/85.		Wozniak, E.—516/Del/85.	
Treibacher Chemische Werke. Aktiengesellschaft.—558/Cal/85.			Y
	U	Yegendra, H.S.—595/Mas/85.	
UOP, Inc.—549/Del/85.			
Union Carbide Corporation.—559/Mas/85, 560/Mas/85.			
United Technologies Corporation.—499/Cal/85.			
Unitek Copiers Pvt. Ltd.—558/Del/85.			
University of Illinois.—553/Cal/85.			
Urban Transportation Development Corporation Ltd.—534/Del/85.			

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